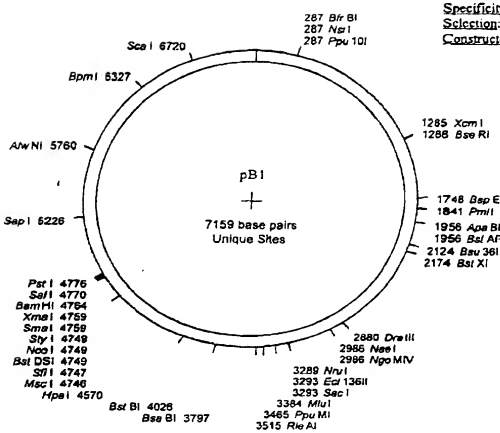
pB1

Alias: pAS2DD
Application: 2HY (bait)
Backbone:
Specificity:
Selection: ampicillin
Constructed by:



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT AT

Sfi I	Sma I	BamH I	Sal I	Pst I
G GCC ATG GAG GCC CCG GGG ATC CGT CGA CCT GCA GCC				

Nco I

Oligo 161

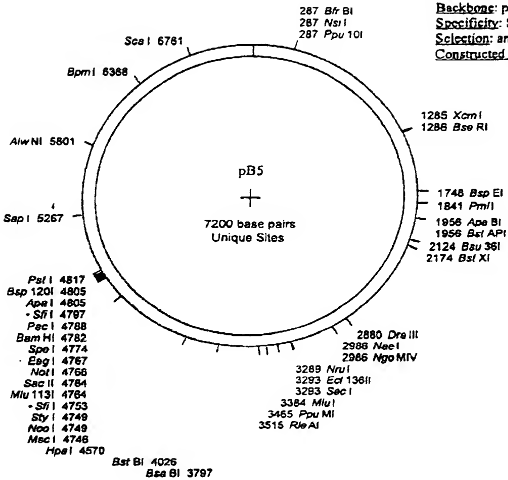
AAG CTA ATT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 1

pB5

Alias: pAS2DDNS1
Application: 2HY (bait)
Backbone: pAS2DD
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW



287 Bfr BI
287 Nsi I
287 Ppu 10I
Sca I 6761
Bpm I 6368
1285 Xcm I
1288 Bse RI
Alw NI 5801
pB5
7200 base pairs
Unique Sites
1748 Bsp EI
1841 Pml I
1956 Apa BI
1956 Bst API
2124 Bsu 36I
2174 Bst XI
Sap I 5267
Pst I 4817
Bsp 120I 4805
Apa I 4805
• Sfi I 4797
Pac I 4788
Bam HI 4782
Spe I 4774
• Eag I 4767
Not I 4766
Sac II 4764
Mlu 113I 4764
• Sfi I 4753
Sty I 4749
Nco I 4749
Msc I 4746
Hpa I 4570
Bst BI 4026
Bsa BI 3797
2880 Dra III
2986 Nae I
2986 Ngo MIV
3289 Nru I
3293 Ecl 136II
3293 Sac I
3384 Mlu I
3465 Ppu MI
3515 Rle AI

Oligo 160

[gagagtagtaacaaaggtc] AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

(Sfi I, Sac II, Spe I, Bam HI above; Nco I, Not I below)

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

(STOP, Sfi I, Pst I above; Pac I below)

TT AAT [TAA] GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Oligo 161

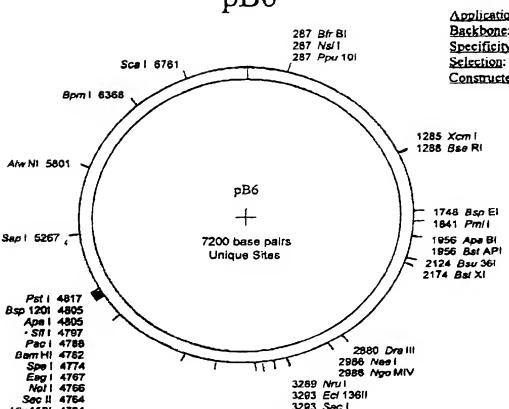
AGC TAA TT [ccgggcgaatttcttatg]

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 2

3

pB6



Oligo 160

gagagtagtaacaaaggtcAAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I — Sac II — Spe I — Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — Not I

STOP — Sfi I — Apa I — Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

Oligo 161

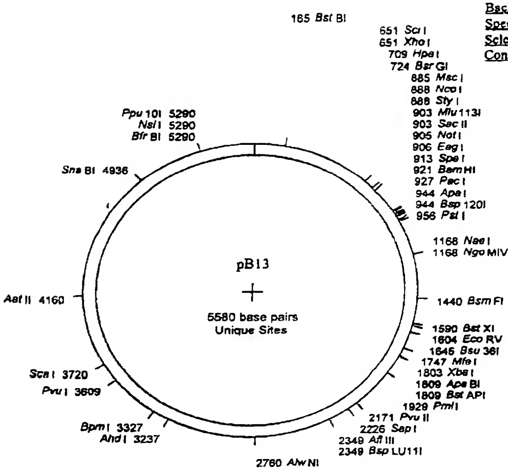
AGC TAA TTccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 3

pB13

Alias: pGBT9NS1
Application: 2HY (bait)
Backbone: pGBT9
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: CR


165 Bst BI
651 Sal I
651 Xho I
709 Hpa I
724 Bsr GI
885 Msc I
888 Nco I
888 Sty I
903 Mlu113I
903 Sac II
905 Not I
906 Eag I
913 Spe I
921 BamHI
927 Pac I
944 Apa I
944 Bsp120I
956 Pst I
1168 Nae I
1168 NgoMIV
1440 BsmFI
1590 Bst XI
1604 Eco RV
1646 Bsu 36I
1747 Mfe I
1803 Xba I
1809 Ape BI
1809 Bst API
1929 Pml I
2171 Pvu II
2226 Sap I
2349 Afl III
2349 Bsp LU11I
2760 AlwNI
Ahd I 3237
Bpm I 3327
Pvu I 3609
Sca I 3720
Aat II 4160
Sna BI 4936
Bfr BI 5290
Nsi I 5290
Ppu 10I 5290
pB13
5580 base pairs
Unique Sites

Oligo 160

[gagagtagtaacaaaggtc] AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I — **Sac II** — **Spe I** — **Bam HI**

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — **Not I**

STOP — **Sfi I** — **Pst I**

TT AAT [TAA] GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

Oligo 161

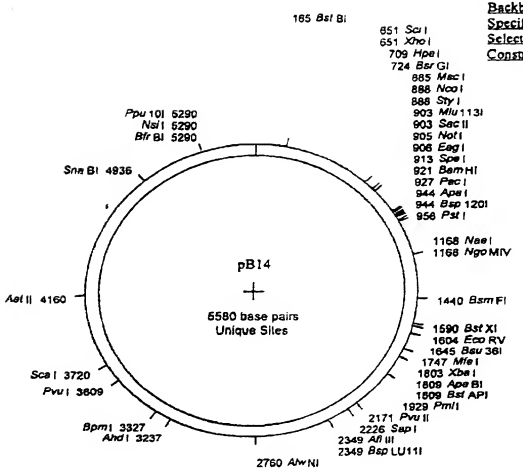
AGC TAA TT [ccgggcgaatttcttatg]

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 4

pB14

Alias: pGBT9NS2
Application: 2HY (bait)
Backbone: pGBT9
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: CR



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I — Sac II — Spe I — Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — Not I

STOP — Sfi I — Apa I — Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

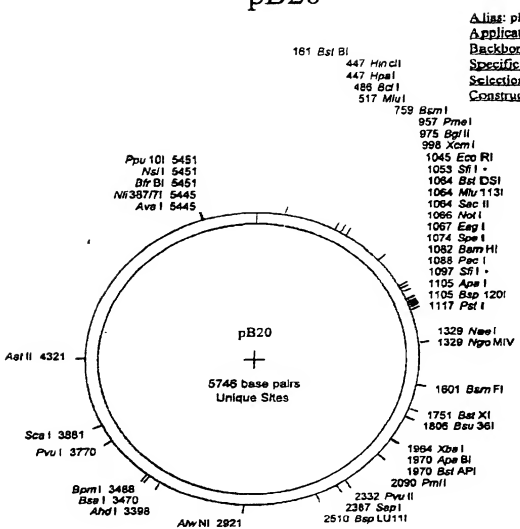
Oligo 161

AGC TAA TT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 5

pB20



EcoR I	Sfi I	Not I	Spe I	BamH I
GAA TTC	GGG GCC GGA CGG GCC	GCG GCC GCA	CTA GTG	GGG ATC C

Sac II

STOP

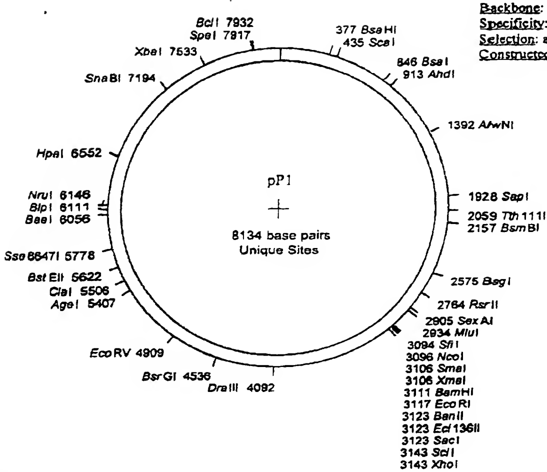
TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG

Pac I — Sfi I — Pst I

FIGURE 6

pP1

Alias : pACTIIst
Application: 2HY (prey)
Backbone: pACTII
Specificity:
Selection: ampicillin
Constructed by:



ABS1

[cgtttggaatcactacagg] GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 **Bgl II**

[cgatgatgaagataccccaccaaa] CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I **Sma I** **BamH I**

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GAG GCC CCG GGG ATC CGA ATT

Nco I

Sac I **Xho I** **Bgl II**

CGA GCT CGA CTA GCT AGC TGA CTC GAG AGA TCT ATGAAT

[cgtagatactgaaaaacccc] GCAAGTT [cacttcaactgtgcatcgtg] [caccatctcaatttc]

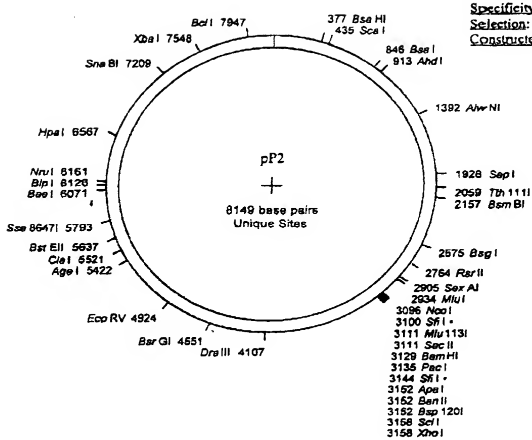
162 **ABS2** **53**

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 7

pP2

Application: 2HY (prey)
Backbone: pACTIIst
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW



ABS1

CG [cgtttggaatcactacagg] GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 — Bgl II

[cgatgatgaagataccccaccaaa] CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I — Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GCA GGG GCC GCG GCC GCA

Nco I

BamH I — Pac I

CTA GTG GGG ATC CTT AAT [TAA] GGG CCA CTG GGG CCC CTC GAG AGA TCT

Stop

ATGAAT [cgtagatactgaaaaacccc] GCAAGTT [cacttcaact[gtgcatcgtg]] [caccatctcaatttc]

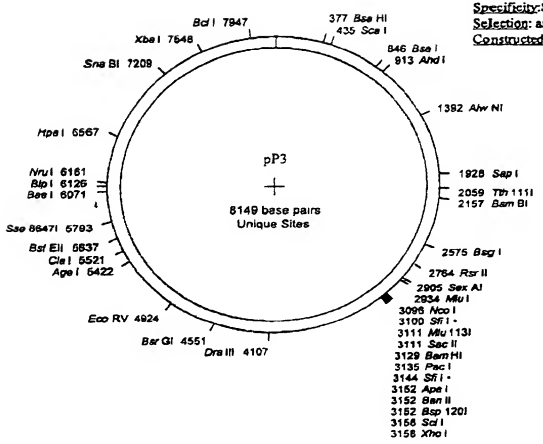
162 — ABS2 — 53

ABS1 **5' CGTTTGGAATCACTACAGG 3'**
JC90 **5' CGATGATGAAGATACCCCACCAAA 3'**
162 **5' GGGGTTTTTCAGTATCTACG 3'**
ABS2 **5' CACGATGCACAGTTGAAGTG 3'**
53 **5' GAAATTGAGATGGTGCACGATGCAC 3'**

FIGURE 8

pP3

Application: 2HY (prey)
Backbone: pACTIIst
Specificity:Sfi oriented
Selection: ampicillin
Constructed by:SW



ABS1

CG cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 Bgl II

cgatgatgaagataccccaccaaa CCCAAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GGA CGG GCC GCG GCC GCA

Nco I

BamH I Pac I

CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT

Stop

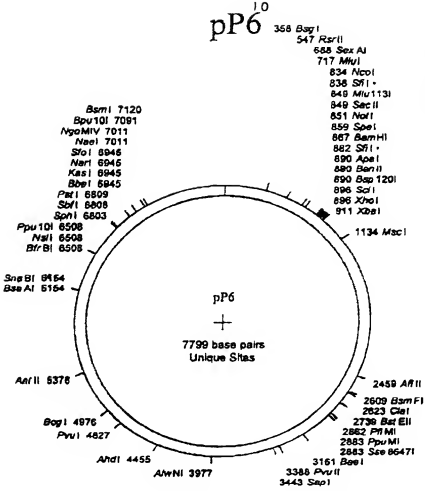
ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

162 ABS2 53

ABS1 5' **CGTTTGGAATCACTACAGG** 3'
JC90 5' **CGATGATGAAGATACCCCACCAAA** 3'
162 5' **GGGGTTTTTCAGTATCTACG** 3'
ABS2 5' **CACGATGCACAGTTGAAGTG** 3'
53 5' **GAAATTGAGATGGTGCACGATGCAC** 3'

FIGURE 9

10



Alias: pGAD3S2XNS1
Application: 2HY (prey)
Backbone: pGAD3S2X
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW

ABS1

cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa CCCAAAAAAAGAGATCCTAGAACTA

Sfi I **Sac II** **Spe I** **Bam HI**

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I **Not I**

STOP **Sfi I** **Xho I** **Xba I**

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA

STOP **STOP** **STOP**

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCG TCGTTTTA

CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT cgtagatactgaaaaccccc GCAA

162

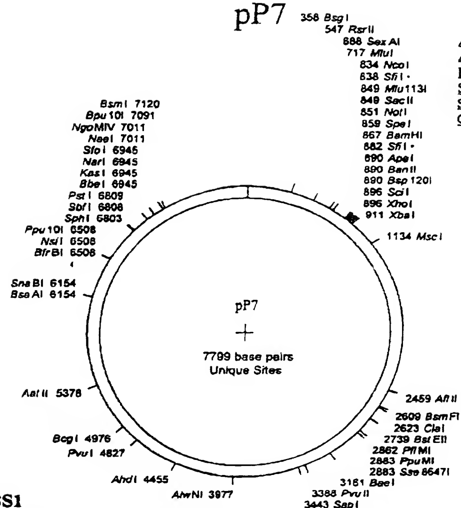
GTT cacttcaactgtgcatcgtg caccatctcaatttctttc

ABS2 **53**

ABS1 5' **CGTTTGGAATCACTACAGG** 3'
JC90 5' **CGATGATGAAGATACCCCACCAAA** 3'
162 5' **GGGGTTTTTCAGTATCTACG** 3'
ABS2 5' **CACGATGCACAGTTGAAGTG** 3'
53 5' **GAAATTGAGATGGTGCACGATGCAC** 3'

FIGURE 10

pP7



358 BsgI
547 RsrII
688 SexAI
717 MluI
834 NcoI
838 SfiI •
849 Mlu113I
849 SacII
851 NotI
859 SpeI
867 BamHI
882 SfiI •
890 ApaI
890 BanII
890 Bsp120I
896 SciI
896 XhoI
911 XbaI
1134 MscI
2459 AflII
2609 BsmFI
2623 ClaI
2739 BstEII
2862 PflMI
2883 PpuMI
2883 Sse8647I
3161 BaeI
3388 PvuII
3443 SapI
AlwNI 3977
AhdI 4455
PvuI 4827
BcgI 4976
AatII 5378
SnaBI 6154
BsaAI 6154
PpuI0I 6508
NsiI 6508
BfrBI 6508
SphI 6803
SbfI 6808
PstI 6809
BbeI 6945
KasI 6945
NarI 6945
SfoI 6946
NaeI 7011
NgoMIV 7011
Bpu10I 7091
BsmI 7120
pP7
7799 base pairs
Unique Sites

Alias: pGAD3S2XNS2
Application: 2HY (prey)
Backbone: pGAD3S2X
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: SW

ABS1

[cgtttggaatcactacagg] GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

[cgatgatgaagataccccaccaaa] CCCAAAAAAAGAGATCCTAGAACTA

```
              Sfi I           Sac II        Spe I         Bam HI
GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C
    Nco I                 Not I

        STOP          Sfi I                Xho I                         Xba I
TT AAT [TAA] GGG CCA CTG GGG CCC CTC GAG [TAG] C[TA G]TG T[CT AG]A
                                          STOP   STOP      STOP
```

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCGTCGTTTTA

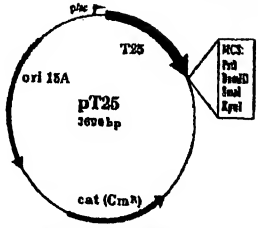
CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT [cgtagatactgaaaaacccc] GCAA
162

GTT [cacttcaac[tgtgcatcgtg] caccatctcaatttcttt]
ABS2 **53**

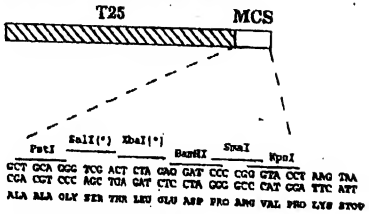
ABS1 5' **CGTTTGGAATCACTACAGG** 3'
JC90 5' **CGATGATGAAGATACCCCACCAAA** 3'
162 5' **GGGGTTTTTCAGTATCTACG** 3'
ABS2 5' **CACGATGCACAGTTGAAGTG** 3'
53 5' **GAAATTGAGATGGTGCACGATGCAC** 3'

FIGURE 11

VECTORS EXPRESSING THE T25 FRAGMENT

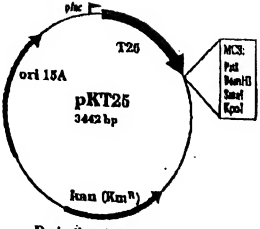


Derivative of pACYC184

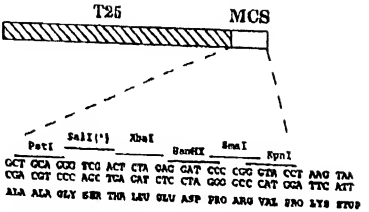


(*) Restriction sites are not unique

FIGURE 12



Derivative of pSU40



(*) Restriction site is not unique

FIGURE 12

VECTORS EXPRESSING THE T18 FRAGMENT

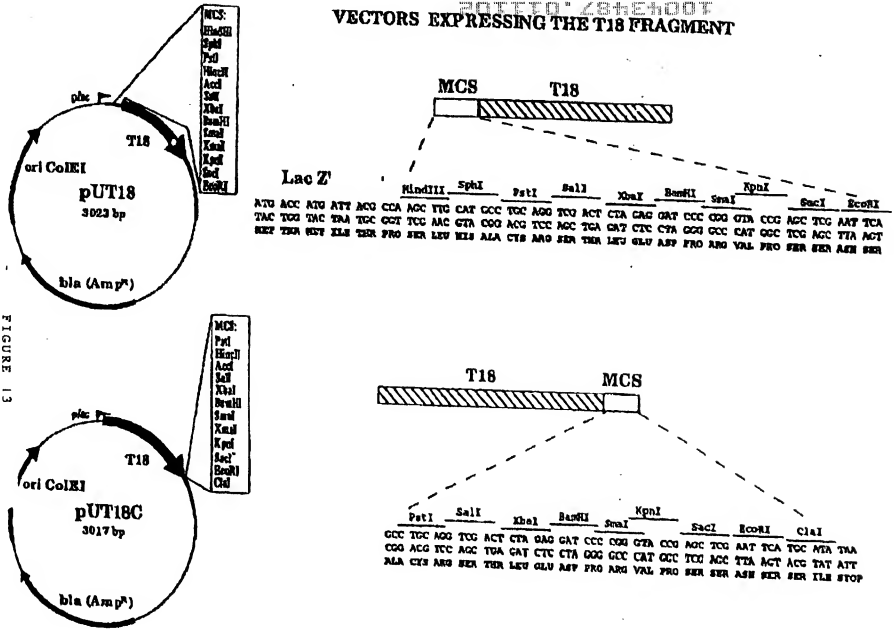


FIGURE 13

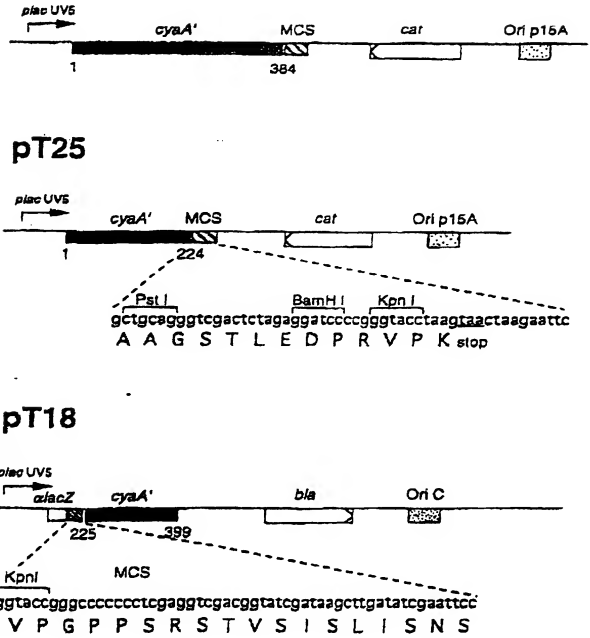

pCmAHL1
plac UV5
cyaA'
MCS
cat
Ori p15A
1
384
pT25
plac UV5
cyaA'
MCS
cat
Ori p15A
1
224
Pst I
BamH I
Kpn I
gctgcagggtcgactctagaggatccccgggtacctaagtaactaagaattc
A A G S T L E D P R V P K stop
pT18
plac UV5
αlacZ
cyaA'
bla
Ori C
225
399
KpnI
MCS
tgggtaccgggcccccccctcgaggtcgacggtatcgataagcttgatatcgaattcc
W V P G P P S R S T V S I S L I S N S

FIGURE 14

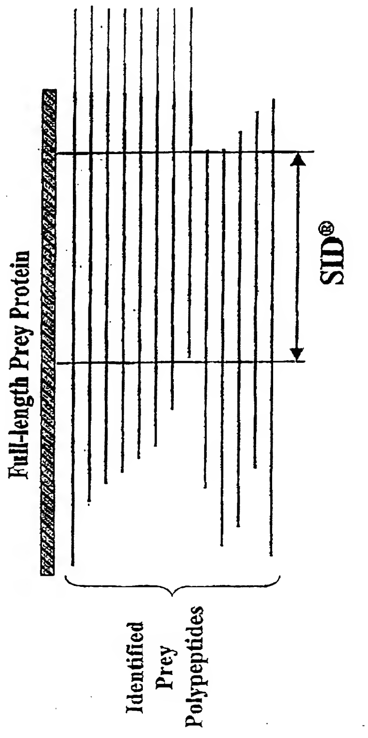


Figure 15 : schematic representation of SID® determination

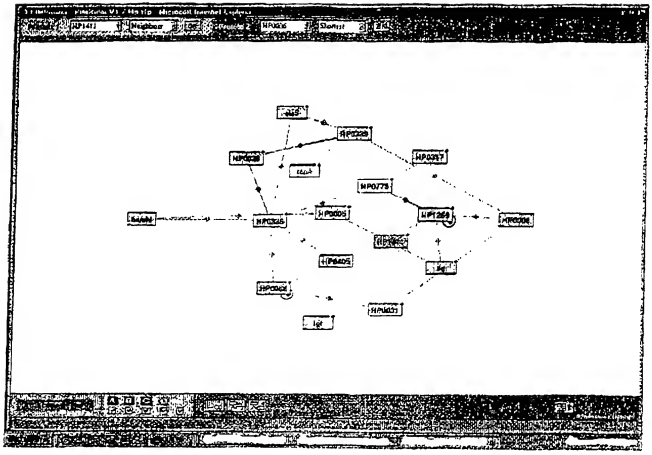


Figure 16 : Example of Protein Interaction Map